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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/738,453	12/16/2003	Rajeev Sharma	21207/1209100-US1	8104
20306 7590 07/09/2009 MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 S. WACKER DRIVE			EXAMINER	
			SETH, MANAV	
32ND FLOOR CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
,			2624	
			MAIL DATE	DELIVERY MODE
			07/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/738,453	SHARMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	MANAV SETH	2624			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>21 Ar</u> This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) 12 and 29 is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,7-11,13-21,24-28 and 30-33 is/are 7) ☐ Claim(s) 5,6,22 and 23 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing(s) filed on is/are: a) ☐ access the drawing are subjected to by the Examine 10. ☐ The drawing are subjected to	drawn from consideration. e rejected. r election requirement. r. epted or b) □ objected to by the E				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 121/6/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Response to Election/Restrictions

1. Applicant's election without traverse of species II including claims 6 and 23 in the reply filed on 04/21/2009 for examination is acknowledged. Claims 12 and 29 are therefore withdrawn from the examination and the election/restriction is herein made final.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 7, 8, 13, 17-19, 24-25 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Hayes, Jr. et al., U.S. Patent No. 6,283,858 B1.

Regarding claim 1, Hayes discloses a method comprising: capturing a plurality of input images (col. 4, lines 39-42), extracting one or more facial images from the plurality of input images (col. 4, lines 43-53 – determine player's natural layout); replacing at least one replaceable actor image with at least one of the plurality of input images in a video sequence and creating a movie based on the replaced at least one replaceable actor image (col.4, lines 54-65 and lines 17-38).

Regarding claim 2, Hayes discloses receiving the one or more facial images automatically from one or more images (col. 11, lines 44-54 – discloses algorithms that automatically provides the face layout from the images).

Regarding claim 3, Hayes discloses receiving the plurality of input images comprising receiving at least one image from a scanned photograph (col. 3, lines 66 through col. 4, line 6 - input data can provided through a scanner)

Regarding claim 7, Hayes discloses playing the movie in real time (col. 7, lines 38-45 – the resulting digital image is accessible by the video game machine 14 so that when the game is played, the image of the character is replaced by the resulting digital image 28. This effectively allows a child to enter his/her image into the digital computer 12 for substitution with characters in the video game. When the game is played, the child sees himself or herself in action).

Regarding claim 8, Hayes discloses changing content in the movie based on a controllable graphical object (col. 12, lines 1-15 – controllable graphical object).

Regarding claim 13, Hayes discloses printing one or more shots of the created movie (col. 13, lines 40-42).

Regarding claim 17, claim 17 has been similarly analyzed and rejected as per claim 1.

Regarding claim 18, claim 18 has been similarly analyzed and rejected as per claim 2.

Regarding claim 19, claim 19 has been similarly analyzed and rejected as per claim 3.

Regarding claim 24, claim 24 has been similarly analyzed and rejected as per claim 7.

Regarding claim 25, claim 25 has been similarly analyzed and rejected as per claim 8.

Regarding claim 30, claim 30 has been similarly analyzed and rejected as per claim 13.

3. Claims 1, 7, 13-14, 17, 24, 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee et al., IEEE Publication, 2001, "CFBOX: Superimposing 3D human face on motion picture" (pages 1-8).

Regarding claim 1, Lee discloses a method comprising: capturing a plurality of input images and extracting one or more facial images from the plurality of input images ((page 2, 1st paragraph, figure 1; Abstract); replacing at least one replaceable actor image with at least one of the plurality of input images in a video sequence and creating a movie based on the replaced at least one replaceable actor image (page 2, 1st paragraph, figure 1; Abstract).

Regarding claim 7, Lee discloses playing the movie in real time (Abstract; topic 3 – "Implementation and Experiments" – first paragraph).

Regarding claim 13, Lee discloses printing one or more screen shots of the created movie (page 2, Topic - "The CFBOX system" - 1st paragraph - printing out results such as photo sticker or a CDR).

Regarding claim 14, Lee discloses showing visual information and instruction about creating the movie (Topic - "Introduction" - 2nd paragraph – THE CFBOX is a standalone kiosk and has a user-friendly interface, so novice user could operate it without difficulty; Topic – "2.2. 3D Face Modeling" - The CFBOX provides GUI for this process).

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Regarding claim 17, claim 17 has been similarly analyzed and rejected as per claim 1.

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Regarding claim 24, claim 24 has been similarly analyzed and rejected as per claim 7.

Regarding claim 30, claim 30 has been similarly analyzed and rejected as per claim 13.

Regarding claim 31, claim 31 has been similarly analyzed and rejected as per claim 14.

3. Claims 1-2, 4, 7-11, 14-16, 17, 18, 20-21, 24-28 and 31-33 are rejected under 35 U.S.C. 102(e)

as being anticipated by Gutta et al., U.S. Patent Publication No. 2003/0007700.

Regarding claim 1, Gutta discloses a method comprising: capturing a plurality of input images and extracting one or more facial images from the plurality of input images (figure 2, para 0019 – static model 230 of the user which is obtained by apparently extracting facial images from the input images); replacing at least one replaceable actor image with at least one of the plurality of input images in a video sequence and creating a movie based on the replaced at least one replaceable actor image (paras 0005, 0013 – the image processing system 100 allows one or more users to participate in an image or image sequence, such as video sequence or video game sequence, by replacing an image of an actor (or a portion thereof, such as the actor's face) in an original image sequence with an image of the corresponding user (or a portion thereof, such as the user's face); para. 0014 – a video integration stage overlays or superimposes the modified user model over the actor in the original image sequence to produce an output video sequence containing the user in the position of the original actor).

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Regarding claim 2, Gutta discloses receiving the one or more facial images automatically

from one or more images (paras 0025-0026 – discloses algorithms that automatically provides the

face model from the images).

Regarding claim 4, Gutta discloses storing at least one replaceable actor image using a

participative movie format (para 0013 – Gutta discloses "the actor to be replaced may be selected by

the user from the image sequence, or may be predefined or dynamically determined, where

predefining requires storing).

Regarding claim 7, Gutta discloses playing the movie in real-time (para. 0013 – the image

processing allows one or more users to participate in an image or image sequence, such as video

sequence or video game sequence, where participation is in real time since the output is produced

right away (para 0014 - last few lines)).

Regarding claim 8, Gutta discloses changing content in the movie based on a controllable

graphical object (paras 0027, 0029 – static model of user is controllable).

Regarding claim 9, Gutta discloses synchronizing dynamic content adjustment to give

seamless flow of playing the movie (0027, 0029- synchronizing the deformation of facial expressions

of the actor with that of user for seamless flow of playing the movie).

Regarding claim 10, Gutta discloses storing the one or more facial images in a database and retrieving a facial image of the stored one or more facial images form the database for use as an input image (para. 0014, 0026; figure 2, element 220-2 – database)

Regarding claim 11, Gutta discloses retrieving the at least one of the replaceable actor image from a database (para 0013 - the actor to be replaced may be selected by the user from the image sequence, or may be predefined, where predefined selection requires retrieving stored actor).

Regarding claim 14, Gutta discloses showing visual information and instruction about creating the movie (Gutta discloses image processing system providing options for creating movie and one of the options is selecting the actor to be replaced (para 0013); further adding the system let's user participate in the creating movie and in order to do so, some instruction are apparently needed).

Regarding claim 15, Gutta discloses extracting the one or more facial images comprises extracting the one or more facial images in real time (para 0013 - the actor to be replaced may be selected by the user from the image sequence, .. or dynamically determined, where dynamic determination is a real time process and extracting the facial image in real-time happens when the image is obtained by camera 220-1, when the user wants to participate in real time).

Regarding claim 16, Gutta discloses wherein extracting the one or more facial images comprising extracting the one or more facial images against an uncontrolled background (as

discussed before, Gutta extracts facial images to provide a static model and clearly the background is not involved and thus is not controlled).

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Regarding claim 17, claim 17 has been similarly analyzed and rejected as per claim 1.

Regarding claim 18, claim 18 has been similarly analyzed and rejected as per claim 2.

Regarding claims 20 and 21, claims 20 and 21 has been similarly analyzed and rejected as per claim 4.

Regarding claims 24-28, claims 24-28 has been similarly analyzed and rejected as per claims 7-11.

Regarding claims 31-33, claims 31-33 has been similarly analyzed and rejected as per claims 14-16.

5. Claims 5-6 and 22-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Examiner note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings for the art and are applied to the specific limitations within the individual claim, other passages and figures may be applied as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references entirely as potential teachings all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

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Any inquiry concerning this communication or earlier communications from the examiner

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should be directed to Manav Seth whose telephone number is (571) 272-7456. The examiner can

normally be reached on Monday to Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Vikkram Bali, can be reached on (571) 272-7415. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Manav Seth/

Examiner, Art Unit 2624

July 7, 2009